BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to roads and drains at Sahakarnagara B, C and D Blocks in ward No. 8, kodigehalli sub-division**

Estimate Cost: 4900000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 141 / Item No. 19.1/ PWD SR 2015-16								
	Drain desilting								
	Sahakaranagara 60 feet double road from Kodigehalli main road upto 13th main road	Cum	2	645.00	0.50	0.50	322.50		
	Deweeding and overburden earth on shoulders	Cum	2	451.50	0.60	0.25	135.45		
	for Kerb stones	Cum	2	519.00	0.20	0.20	41.52		
							499.47	83.16	41536.00
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	83.16							
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications.- Rubble stone masonry in cement mortar (PWDSR 2015-16, I. 18.27, P. 137)								
	On Kodigehalli main road	cum	1	18.00	0.45	0.90	7.29		
							7.29	250.56	1827.00
	Basic Rate	232.00							
	Area Weightage @8%	18.56							
	Total	250.56							
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications. - RCC grade M20 and above (PWDSR 2015-16, I. 18.19, P. 137)								
	Chiping top layer of cc drain					Av.			
	On Kodigehalli main road	Cum	1	18.00	1.70	0.230	7.04		
	coping	Cum	2	18.00	0.45	0.100	1.62		
							8.66	1042.20	9023.00
	Basic Rate	965.00							
	Area Weightage @8%	77.20							
	Total	1042.20							
4	Removing B.S Slab of Drain and stacking Page No. 25 / Item No. 5.32 / PWD SR 2015-16								
	Sahakaranagara 60 feet double road from Kodigehalli main road upto 13th main road	Sqm	2	519.00	1.65		1712.70		
							1712.70	63.72	109133.00
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	63.72							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25 / Item No. 5.33 / PWD SR 2015-16								
	80 % of the quantity vide item No. 1	Sqm	Qty Vide Item No. 1				1370.16	78.84	108023.00
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	78.84							
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (10.0 cms thick) (P.No.28, I.No.5.31.2 of PW,P&IWTD SR 2015-16)								
	Balance qty vide item No. 4 & 5	sqm					342.54	794.88	272278.0
	Basic Rate Rs.	736.00							
	Add 8% A.W Rs.	58.88							
	Total Rate Rs.	794.88							
7	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2015-16								
	for culvert drain bed	Cum	1	18.00	1.80	0.150	4.86		
	for footpath improvements	Cum	2	519.00	0.60	0.150	93.42		
							98.28	5070.60	498339.00
	Basic Rate	4695.00							
	Area Weightage @8%	375.60							
	Total	5070.60							
8	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2015-16								
	for side walls	Cum	2	18.00	0.45	0.90	14.58		
A	**With Available stones**								
	70% of qty vide item No. 2	cum					5.10	3852.36	19647.00
	Basic Rate	4777.00							
	Deduct cost of available stones 100*11/each	1100.00							
	Deduct 10% overhead charges (1000*10%)	110.00							
	Net rate	3567.00							
	Area Weightage @ 8%	285.36							
	Total	3852.36							
B	**With New stones**								
	balance quantity	cum					9.48	5159.16	48909.00
	Basic Rate	4777.00							
	Area Weightage @8%	382.16							
	Total	5159.16							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 112 / Item No. 15.4 / PWD SR 2015-16								
	for side walls	Sqm	4	18.00		0.90	64.80		
							64.80	97.20	6299.00
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	97.20							
10	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2015-16								
	For laying over chipped cc drain								
	coping	Cum	2	18.00	0.45	0.100	1.62		
	ramps	Cum	2	18.00	0.30	0.150	1.62		
	for footpath improvements	Cum	2	519.00	0.60	0.150	93.42		
							3.24	5490.72	17790.00
	Basic Rate	5084.00							
	Area Weightage @8%	406.72							
	Total	5490.72							
11	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16								
	slab	Cum	1	18.00	1.70	0.23	7.04		
							7.04	6198.12	43622.00
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	6198.12							
12	KSRB 4.9.1: Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.45 / PWD SR 2015-16								
	steel @ 90 Kg / Cum		0.90	7.04			6.33	6488.64	41100.00
	Basic Rate	6008.00							
	Area Weightage @ 8%	480.64							
	Total	6488.64							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
13	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2015-16								
	bottom	Sqm	1	18.00	0.60		10.80		
	alround sides	Sqm	1	39.40	0.23		9.06		
		Sqm					19.86	306.72	6092.00
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	306.72							
14	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 N/sqmm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cm conforming to IS 2185 / 1965 in superstructure including cost of all materilas, labour charges, scaffolding, curing complete as per specifications. (PWDSR 2015-16, I. 5.27, P. 25)								
	over stone burnt slabs	sqm	2	519.00		0.060	62.28		
							62.28	1018.44	63428.00
	Basic Rate	943.00							
	Area Weightage @8%	75.44							
	Total	1018.44							
15	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing curing etc., complete of size 450x200x400 mm (PWDSR 2015-16, I. 5.29.1, P. 25)								
	Sahakaranagara 60 feet double road from Kodigehalli main road upto 13th main road	Rm	2	519.00			1038.00		
		No.					2307.00	373.68	862080.00
	Basic Rate	346.00							
	Area Weightage @8%	27.68							
	Total	373.68							
16	Providing and laying / fixing cement base, precast, pre polished cement concret3, designer tiles 25 mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half / full round whever required, labour, curing etc., complee as per specification (PWDSR 2015-16, P. 109, I. 14.62)								
	Sahakaranagara 60 feet double road from Kodigehalli main road upto 13th main road	sqm	2	519.00	0.60		622.80		
							622.80	1137.24	708273.00
	Basic Rate	1053.00							
	Area Weightage @8%	84.24							
	Total	1137.24							
17	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. (Approved data rate enclosed) copy of data rate to be enclosed								
	Sahakaranagara 60 feet double road from Kodigehalli main road upto 13th main road	sqm	2	519.0	0.90		934.20		
		sqm					934.20	1600.0	1494720.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No. 178, Item No. 24.15 SR 2014-15)								
	Sahakaranagara 60 feet double road from Kodigehalli main road upto 13th main road	sqm	4	519.00	0.10		207.60		
	cross roads (3 lines)	sqm	21	170.00	0.10		357.00		
							564.60	473.04	267078.00
	Basic Rate Rs.	438.00							
	Add 8% A.W Rs.	35.04							
	Total Rate Rs.	473.04							
19	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.133 of PWDSR 2015-16)								
			Vide Item No. 1 and 3				433.21	78.97	34210.00
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.133	68.00							
		73.12							
	Area Weightage @ 8%	5.85							
	Total	78.97							
20	Sub Total								4653407.00
21	For CCTV including all connections and fittings							LS	200000.00
22	For Third Part QC inspection Charges @ 1% of Estimate Cost								46534.00
23	Miscellaneous and other Charges	LS							59.00
								Total	4900000.00
	(Rs. Forty Nine Lakhs Only)								

TECHNICAL SANCTION
Accorded For Rs. 4900000=00
Head of A/c. P-3075
Div. Ref. No. 19/15-16 Date. 31.12.15
AE SE

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

14/12/15

Assistant Engineer
Ward No. 8
BBMP

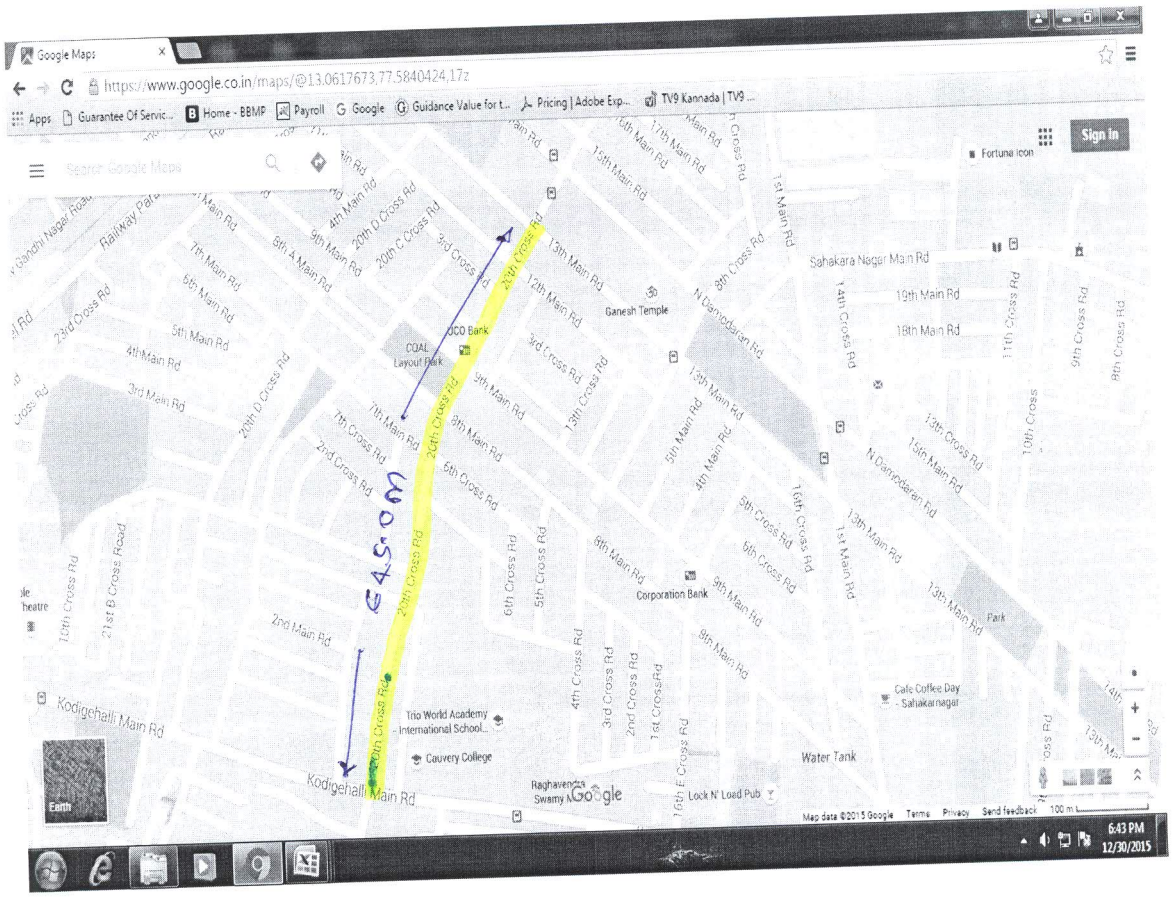
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 49.00 Lakhs
Rupees Forty nine lakhs only
Under P-3075
Registered as EE ( ) No. 9
Subject to conditions contained in enclosed memo EE ( ) No. /91
Dt. Estimate Sanctioned
Addl Exc Cywk/AS/09/73/15-16
dated 31-12-2015 Rs. 49.00 Lakhs

Joint Commissioner
(Yelahanka Zone)

Name of Work: Improvements to roads and drains at Sahakarnagara B, C and D Blocks in ward No. 8, kodigehalli sub-division



Assistant Engineer
Ward 8, Kodigehalli

Assistant Executive Engineer
Kodigehalli sub-division